Assignment 8-4 Integer Addition 4

The problem is to add two integers a and b. $(0 \le a, b < 10^{250})$

Input

The input consists of t (30 $\le t \le 40$) test cases. The first line of the input contains only positive integer t. Then t test cases follow. Each test case consists of two lines which give the two integers a and b (0 $\le a$, $b < 10^{250}$).

Output

For each test case, you are to output a single line containing the sum of a and b.

Sample Input

3

10

3

4

0

0

Sample Output

13

4

8

Part of the program

You are required to write the function addition to complete the following program which solves this problem. In your program, you cannot declare global variables or static arrays

```
#include <iostream>
#include <cstring>
using namespace::std;

class HugeInt
{
public:
    int size;
    int *digit;

    // sum = addend + adder
    void addition( HugeInt adder, HugeInt &sum );
```

```
};
int main()
     char strA[ 251 ], strB[ 251 ];
    int T;
cin >> T;
for( int t = 0; t < T; ++t )
         cin >> strA >> strB;
         HugeInt addend;
         addend.size = strlen( strA );
addend.digit = new int[ addend.size ];
for( int i = 0; i < addend.size; ++i )
   addend.digit[ i ] = strA[ addend.size - 1 - i ] - '0';</pre>
        HugeInt adder;
adder.size = strlen( strB );
adder.digit = new int[ adder.size ];
for( int i = 0; i < adder.size; ++i )
   adder.digit[ i ] = strB[ adder.size - 1 - i ] - '0';</pre>
         HugeInt sum;
         addend.addition( adder, sum );
         for( int i = sum.size - 1; i >= 0; i-- )
  cout << sum.digit[ i ];</pre>
         cout << endl;</pre>
         delete[] addend.digit;
delete[] adder.digit;
delete[] sum.digit;
    }
}
// sum = addend + adder
void HugeInt::addition( HugeInt adder, HugeInt &sum )
}
```